

## 4.4 Ballistic Resistance

The ballistic resistance of each test specimen of ballistic resistant protective material shall be determined in accordance with section 5.3. The test weapon and ammunition used during this test shall be those specified in table 1 in accordance with the type (threat level rating) specified by the manufacturer (sec. 4.3). Any penetration of the witness plate shall constitute failure.

The ballistic resistance test variables and test requirements are presented in table 1.

TABLE 1. *Test summary.*

Armor type	Test ammunition	Test variables		Performance requirements		
		Nominal bullet mass	Suggested barrel length	Required bullet velocity	Required fair hits per armor specimen	Permitted penetrations
I	22 LRHV	2.6 g	15 to 16.5 cm	320±12 m/s	5	0
	Lead	40 gr	6 to 6.5 in	1050±40 ft/s		
II - A	38 Special	10.2 g	15 to 16.5 cm	259±15 m/s	5	0
	RN Lead	158 gr	6 to 6.5 in	850±50 ft/s		
II - A	357 Magnum	10.2 g	10 to 12 cm	381±15 m/s	5	0
	JSP	158 gr	4 to 4.75 in	1250±50 ft/s		
II	9 mm	8.0 g	10 to 12 cm	332±12 m/s	5	0
	FMJ	124 gr	4 to 4.75 in	1090±40 ft/s		
II	357 Magnum	10.2 g	15 to 16.5 cm	425±15 m/s	5	0
	JSP	158 gr	6 to 6.5 in	1395±50 ft/s		
III - A	9 mm	8.0 g	10 to 12 cm	358±12 m/s	5	0
	FMJ	124 gr	4 to 4.75 in	1175±40 ft/s		
III - A	44 Magnum	15.55 g	14 to 16 cm	426±15 m/s	5	0
	Lead	240 gr	5.5 to 6.25 in	1400±50 ft/s		
III - A	SWC Gas					
	Checked					
III	9 mm	8.0 g	24 to 26 cm	426±15 m/s	5	0
	FMJ	124 gr	9.5 to 10.25 in	1400±50 ft/s		
III	7.62 mm	9.7 g	56 cm	838±15 m/s	5	0
	(308 Winchester)	150 gr	22 in	2750±50 ft/s		
IV	FMJ					
	30-06	10.8 g	56 cm	868±15 m/s	1	0
IV	AP	166 gr	22 in	2850±50 ft/s		
	Special requirement (see sec. 2.2.7)	*	*	*	*	0

\*These items must be specified by the user. All of the items must be specified.

Abbreviations: AP - Armor Piercing  
 FMJ - Full Metal Jacketed  
 JSP - Jacketed Soft Point  
 LRHV - Long Rifle High Velocity  
 RN - Round Nose  
 SWC - Semi-Wadcutter